Department of State Growth
MINERAL RESOURCES TASMANIA

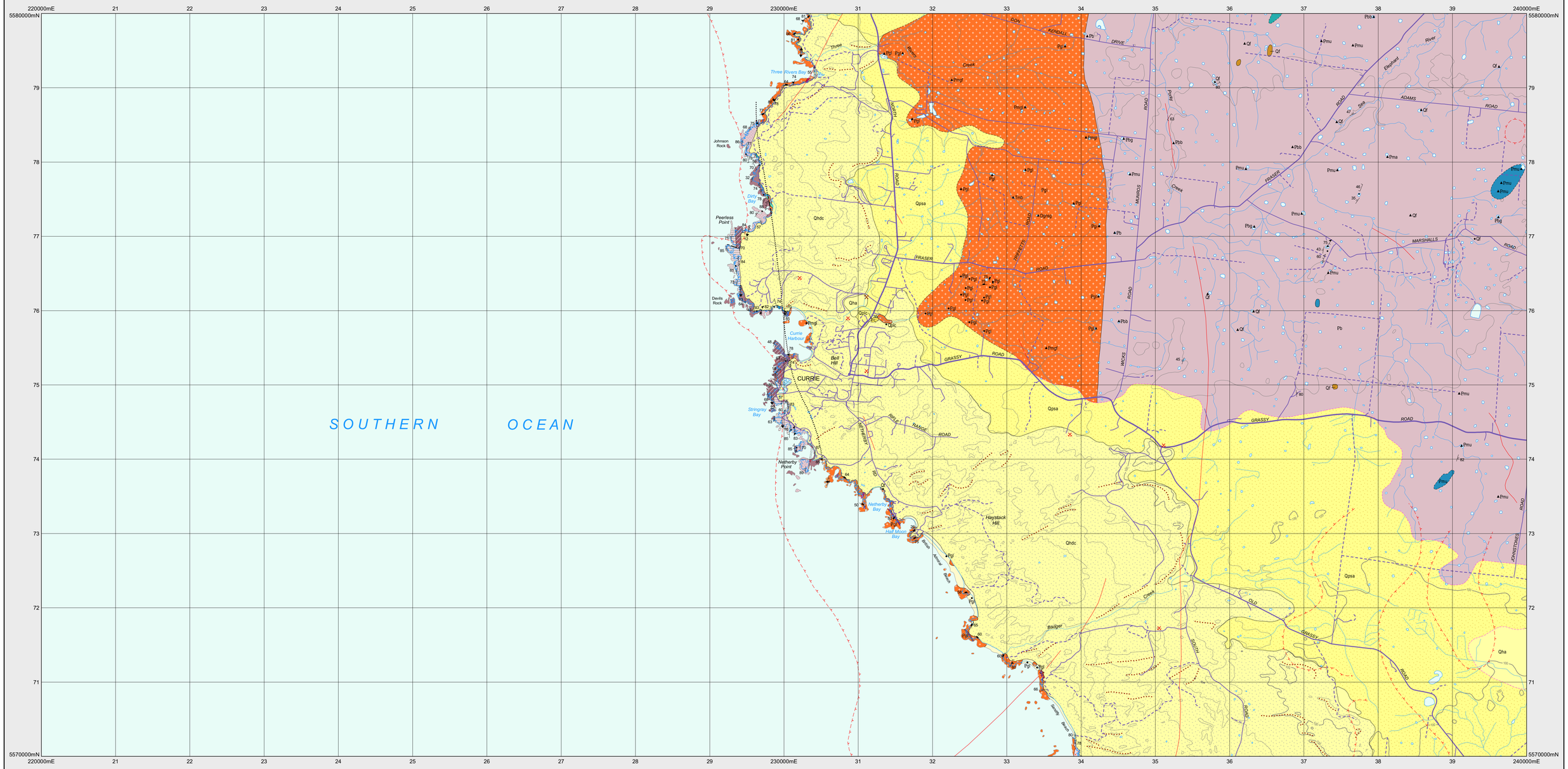
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
CURRIE, SHEET 2257

CURRIE

Scale 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government



CENOZOIC

QUATERNARY

Symbol	Description
Qhb	*Undifferentiated Quaternary sediments (Q). Mobile beach and dune sand (Qhb).*
Qha	*Stream alluvium, swamp and marsh deposits (Qha).*
Qhdc	*Vegetated calcareous dune sand (Qhdc).*
• Qt	*Tufa spring deposits (Qt).*
Qf	*Ironstone (Qf).*
Qplc	*Well-bedded aeolian calcarenite (lithified calcareous dune sand; "aeolianite") (Qplc).*
Qpsa	*Stabilised aeolian sand of coastal plain (Qpsa).*

NEOGENE

MIOCENE

Symbol	Description
• Tmb	*Bioclastic shallow marine limestone (bryozoal calcarenite) with a probable Early Miocene fauna (at 233100mE, 5577520mN) (Tmb).*

~~~~~~~~~~~~ *Unconformity.*

MESOPROTEROZOIC

ECTASIAN (?)

SURPRISE BAY FORMATION

Symbol	Description
Pb	*Fine-grained quartzose metasandstone, metasiltstone and quartz-mica schist; lower amphibolite facies metamorphic grade (Pb); some localities with metamorphic biotite (Pbb) and with metamorphic garnet and biotite (Pbg) indicated.*
Pbsx	*Dominantly metasandstone, contact metamorphosed by Tonian granites (Pbsx).*
Pbl	*Fine-grained quartz sandstone, siltstone and cleaved mudstone/phyllite (Pbl).*
Pblp	*Cleaved mudstone/phyllite with minor interbedded siliceous siltstone (Pblp).*
Pbls	*Fine-grained quartzose sandstone turbidite beds interbedded with cleaved mudstone/phyllite (Pbls).*
Pbll	*Laminated siliceous siltstone with metamorphic garnet (Pbll).*

PALEO-ZOIC

MESOZOIC (?)

CRETACEOUS (?)

CARBON-IFEROUS (?)

NEOPROTEROZOIC

TONIAN

INTRUSIVE ROCKS

Symbol	Description
Kal	*Biotite lamprophyre dyke (near Netherby Bay, 231086mE, 5573531mN) (Kal).*
Dgnsg	*Microgranodiorite to microgranite dykes, typically feldspar-hornblende ± quartz phyric; dated at 350 ± 4Ma at 230730mE, 5573778mN (U-Pb SHRIMP on zircon Black et al., 1997) (Dgnsg).*
Dgnsd	*Mafic microdiorite dykes, typically aphyric with abundant hornblende in groundmass, alkalic composition and high magnetic susceptibility (Dgnsd).*
Pmgl	*Tholeiitic metadolerite dykes in Loorana Granite (Pmgl).*
Pmgf	*Strongly fractionated metadolerite dykes, generally feldspar-phyric, in Loorana Granite (Pmgf).*
Pmt	*Tholeiitic metadolerite dykes in Surprise Bay Formation, demonstrably younger than Loorana Granite (at 229635mE, 5578080mN) (Pmt).*
• Pma	*Strongly fractionated metadolerite dykes, generally feldspar-phyric in Surprise Bay Formation; probably younger than Loorana Granite (at 238130mE, 5578085mN) (Pma).*
• Pgl	*Equigranular/seriate to sparsely porphyritic (K-feldspar), fine- to medium-grained biotite monzogranite, with sparse mafic enclaves (Loorana Granite, dated at 748 ± 2Ma at 231760mE, 5572950mN, (U-Pb SHRIMP on zircon: Black et al., 1997) (Pgl).*
Pglc	*Breccia, cataclasite and mylonite, derived predominantly from the Loorana Granite, with minor interfoliated pelitic schist (Pglc).*
Pgp	*Quartz-feldspar-biotite porphyry sills (Pgp).*
Paa	*Amphibolite dykes and sheets; older than Loorana Granite (Paa).*
Pmu	*Tholeiitic metadolerite dykes; probably Proterozoic, age relative to Loorana Granite unknown (Pmu).*

CONTACTS

Geological contact.
Geological contact - inferred.
Geological contact - inferred from magnetic data.
Geological contact - inferred from radiometric data.
Limit of mapping of sub-unit within undifferentiated rock unit.
Limit of detailed mapping.

FAULTS

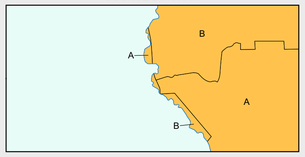
Fault.
Fault - concealed.

LINEARS

Subsurface geological boundary projected to surface.
Dune crest.
Lineament - visible in magnetic data.
Magnetic gradient or lineament (direction towards lower values indicated).

Strike and dip of bedding - right way up; facing unknown.
Strike and dip of cleavage, relative local age S_1; relative local age S_2; relative local age S_3.
Strike and dip of cleavage of unspecified type and relative age.
Trend and plunge of minor fold hinge line, relative local age F_2; vergence sinistral.
Strike and dip of dominant joint set.
Trend of preferred orientation of K-feldspar phenocrysts in granitic rock.
Strike and dip of flaser foliation.
Strike and dip of mylonitic foliation or mylonite zone; vertical.
• *Field station for adjacent readings on the map.*
• *Notable small outcrop with rock unit indicated.*
▲ *Notable small float or lag occurrence with rock unit indicated.*
Mineral deposit location - hardrock.
Construction material/industrial mineral/gemstone location.

SOURCE DIAGRAM



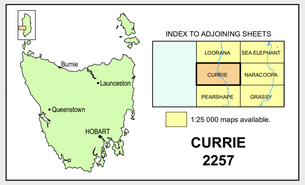
- Highly detailed (eg. more detailed than 1:25 000 scale mapping).
- Detailed systematic (eg.1:25 000 map or equivalent detail).
- Regional systematic (eg.1:50 000, 1:63 360 map or equivalent detail).
- Regional mapping less detailed than 1:63 360 map or equivalent (all other scales).
- Reconnaissance mapping with sparse ground traverses.
- Remote sensing and/or geophysical interpretation with limited or no ground information.

Geology by C.R. Calver, B.Sc.(Hons) and J.L. Everard, B.Sc.(Hons), 2012 - 2013 from the following sources (see source diagram):

A C.R. Calver 1:25 000 scale geological mapping, 2011 - 2012.

B J.L. Everard 1:25 000 scale geological mapping, 2011 - 2012.

LOCATION DIAGRAM



REFERENCE THIS MAP AS:

CALVER C.R. and EVERARD J.L. 2013. Digital Geological Atlas 1:25 000 Scale Series. Sheet 2257 Currie. Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania.

Website: www.mrt.tas.gov.au

GDA94 - MGA Zone 55. Contour Interval: 20 metres.

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Map generated: 04-JUL-2023

WARNING: INKS ARE LIGHT SENSITIVE.
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